

AMENDMENT TO THE CLAIMS

The following claim listing replaces all prior listings and versions of the claims:

LISTING OF CLAIMS

1. (Currently Amended) A fuel cell system comprising:

a fuel cell comprising an anode, a cathode, and an electrolyte interposed between said anode and said cathode; and

a purifying apparatus comprising a catalyst layer that purifies an effluent discharged from said anode,

wherein said purifying apparatus has a porous sheet including said catalyst layer and has a first flow path and a second flow path respectively ~~two flow paths~~ disposed on one side and the other side ~~both sides~~ of said porous sheet,

said first flow path ~~one of the flow paths~~ has an inlet into which the effluent discharged from said anode is introduced,

said second flow path ~~the other flow path~~ has an inlet into which air is introduced and an outlet, and

the effluent discharged from said anode is passed through said porous sheet and discharged from said outlet, and the effluent is directed to said porous sheet without being mixed with the air in advance.

2. (Original) The fuel cell system in accordance with claim 1, wherein said fuel cell is a direct-type fuel cell in which an organic fuel is directly supplied to said anode and air is supplied to said cathode.

3. (Original) The fuel cell system in accordance with claim 2, wherein the effluent discharged from said anode is collected and purified without being supplied to the anode again.

4. (Currently Amended) The fuel cell system in accordance with claim 1, wherein said porous sheet has a layered structure further comprising in which porous diffusion layers that sandwich ~~are disposed on both sides of~~ the catalyst layer.

5. (Currently Amended) The fuel cell system in accordance with claim 1, wherein the air introduced into said ~~the other~~ second flow path includes air discharged from said cathode.

6. (Original) The fuel cell system in accordance with claim 1, wherein a temperature inside said purifying apparatus becomes 30 to 80 °C.

7. (Currently Amended) The fuel cell system in accordance with claim 1, wherein a catalyst in said catalyst layer ~~is composed simply~~ consists of platinum or comprises an alloy or a mixture comprising platinum and other metal, and said other metal is at least one selected from the group consisting of ruthenium, iron, cobalt, nickel, chromium, molybdenum, rhodium, palladium, osmium, and iridium.

8. (Original) The fuel cell system in accordance with claim 2, wherein said organic fuel includes at least methanol.

9. (New) The fuel cell system in accordance with claim 1, wherein a temperature inside said purifying apparatus becomes 20 to 60 °C.